

# USER'S MANUAL

BVS10.1

DVD/MP3/CD AM/FM RECEIVER

**BOSS**<sup>®</sup>  
AUDIO SYSTEMS

BOSS Audio Systems

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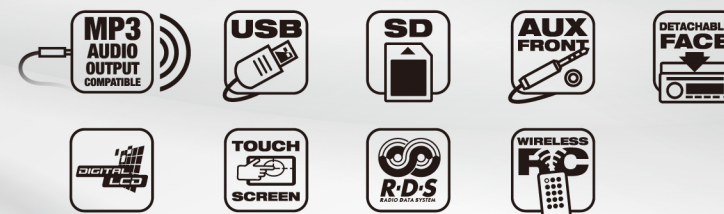
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# USER'S MANUAL

BVS10.1

DVD/MP3/CD AM/FM RECEIVER

FEATURING DETACHABLE 10.1" (257mm) HIGH QUALITY TOUCHSCREEN  
DIGITAL TFT MONITOR



**BOSS**<sup>®</sup>  
AUDIO SYSTEMS



**To ensure safety while driving  
and to comply with laws,  
drivers should not watch video or  
operate the video device while driving.**

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# Precaution

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## **THANK YOU FOR PURCHASING A BOSS AUDIO MULTIMEDIA PLAYER .**

Before operating the unit, read this manual thoroughly and keep it handy for future reference .

To avoid injury or accident , read the following precautions before installing and operating the unit .

### **ON INSTALLATION**

- DO NOT install any receiver in locations where;
  - it may obstruct the steering wheel and gearshift lever operations, as this may result in a traffic accident.
  - it may obstruct the operation of safety devices such as air bags, as this may result in a fatal accident.
  - it may obstruct visibility.
- DO NOT operate any receiver while manipulating the steering wheel, as this may result in a traffic accident.
- The driver must not watch the monitor while driving.
- IF THE DRIVER watches the monitor while driving, it may lead to carelessness and cause an accident.
- IF YOU NEED to operate the receive while driving, be sure to look ahead carefully or you may be involved in a traffic accident.
- IF THE PARKING BRAKE is not engaged. "ParkingBrake" flashes on the monitor, and no playback picture will be shown.
  - This warning appears only when the parking brake wire is connected to the parking brake system built in the car ( refer to the electric connection)

### **ABOUT THE LIQUID CRYSTAL DISPLAY (LCD) PANEL**

Do not press on the LCD panel on the unit as doing so can distort the picture or cause a malfunction . The picture may become unclear , or the LCD panel may be damaged .

### **NOTES ON CLEANING**

- Clean the LCD panel with a slightly damp soft cloth.
- Do not use solvents such as benzine, thinner, commercially available cleaners or antistatic spray .
- Do not use alcohol to clean the screen .

If your car was parked in a cold or hot place, the picture may not be clear . The monitor is not damaged . The picture will become clear the temperature in your car becomes normal .

# Safety Information

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## **CAUTION:**

THIS DIGITAL VIDEO PLAYER IS A CLASS I LASER PRODUCT. HOWEVER THIS DIGITAL VIDEO PLAYER USES A VISIBLE/INVISIBLE LASER BEAM WHICH COULD CAUSE .

HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE DIGITAL VIDEO PLAYER CORRECTLY AS INSTRUCTED. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

## **WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

THIS DEVICE IS INTENDED FOR CONTINUOUS OPERATION.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. Patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macro vision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

## **REGION MANAGEMENT INFORMATION:**

This Digital Video Player is designed and manufactured to respond to the Region Management Information that is recorded on a Digital Video disc. If the Region number described on the Digital Video disc does not correspond to the Region number of this Digital Video Player, this Digital Video Player cannot play this disc.

# Disc Note

## Disc formats supported by this player

Digital Video	<b>Digital Video</b>	Audio and Video Disc size 12 cm
VCD	<b>VCD</b>	Audio and Video Disc size 12 cm
CD	<b>CD</b>	Audio Disc size 12 cm
MP3	<b>MP3</b>	Audio Disc size 12 cm

## Discs which cannot be played with this player

- Digital Video-RAM
- CDV
- CDG

## Handling and Cleaning

- Dirt, dust, scratches and warping disc will cause misoperation.
- Do not place stickers or make scratches on discs.
- Do not warp discs.
- A disc should always be kept in its case when not in use to prevent from damaging.
- Do not place discs in the following places:
  1. Direct sunlight
  2. Dirty, dusty and damp areas
  3. Near car heaters
  4. On the seats or dashboard

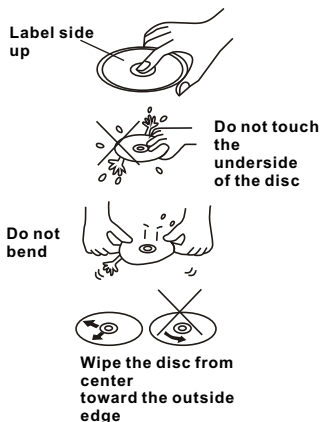
## Disc Cleaning

Use a dry soft cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moistured with isopropyl (rubbing) alcohol. Never use solvents such as benzine, thinner or conventional record cleaners as they may mar the surface of the disc.

## Note:

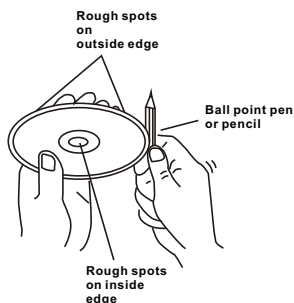
A disc may become somewhat scratched (although not enough to make it

unusable) depending on your handle it and conditions in the usage environment. Note these scratches are not an indication of any problem with the player.



## Preparing New Discs with Rough Spots

A new disc may have rough edges on its inside and outside edges. If a disc with rough edges is used, the proper setting will not be performed and the player will not play the disc. Therefore, remove the rough edges in advance by using a ball point pen or pencil as shown on the right. To remove the rough edges, press the side of the pen or pencil against the inside and outside edges of the disc.



# Installation

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## NOTES:

Choose the mounting location where the unit will not interfere with the normal driving function of the driver.

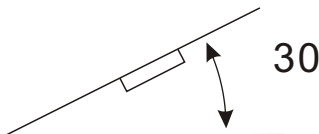
Before finally installing the unit, connect the wiring temporarily and make sure it is all connected up properly and the unit and the system work properly.

Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.

Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.

Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.

If installation angle exceeds 30 from horizontal, the unit might not give its optimum performance.



Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from the heater, or where it would be subject to dust, dirt or excessive vibration.

## DIN FRONT/REAR-MOUNT

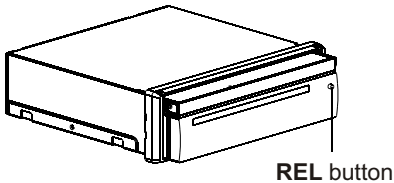
This unit can be properly installed either from "Front"(conventional DIN Front-mount) or "Rear"(DIN Rear-mount installation, utilizing threaded screw holes at the sides of the unit chassis). For details, refer to the following illustrated installation methods.



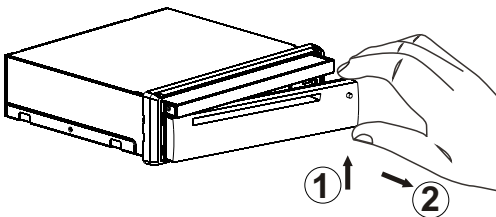
# Installation

---

1. Remove the chassis from Slide Bracket Housing ;
- 1) Press the REL button to release the control panel ;



- 2) Hold the right side of the control panel to pull it rightwards a little and then to you for removing it ;



- 3) Remove the PLASTIC FRAME from the chassis (see the Installation diagram);
  - 4) Insert the 2 KEY PLATES into the grooves at the both sides of the chassis till they click(see the Installation diagram);
  - 5) Pulling the two KEY PLATES to remove the chassis from the Slide Bracket Housing ;
- 
2. Mount the Sliding Bracket Housing in the position of car multi-media system and bend some tabs of Sliding Bracket Housing to fix it.
- 
3. Connecting all wires:
  - 1) Connecting all wires according ot the wiring diagram on next page;

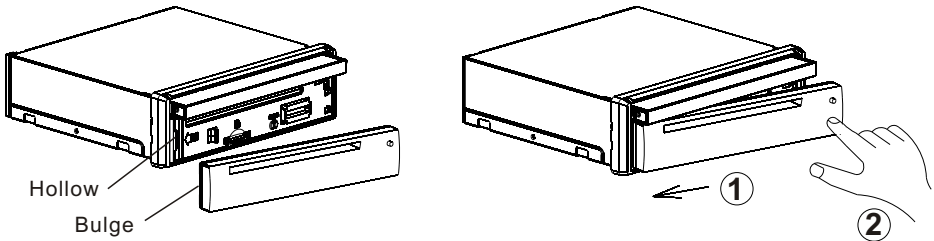
# Installation

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2) Attaching the control panel onto the chassis;

(1) Insert the left side of the control panel into the hollow of the chassis .  
(NOTE : the “bulge” point on the control panel must be attached into the hollow of the chassis .)

(2) Gently push the right side of the control panel till you feel a “ Click” .



3) Testing it for making sure that it can work properly .

4. Installing chassis according to the installation diagram on next page:

1) Insert the chassis of the car multi-media system into the Sliding Bracket Housing.

2) Use the metal strap to fix the rear part of chassis.

5. Installing the monitor refer to next next page.

\* Uninstalling the chassis:

1) removing the monitor refer to next next page

2) Remove the metal strap from the chassis ;

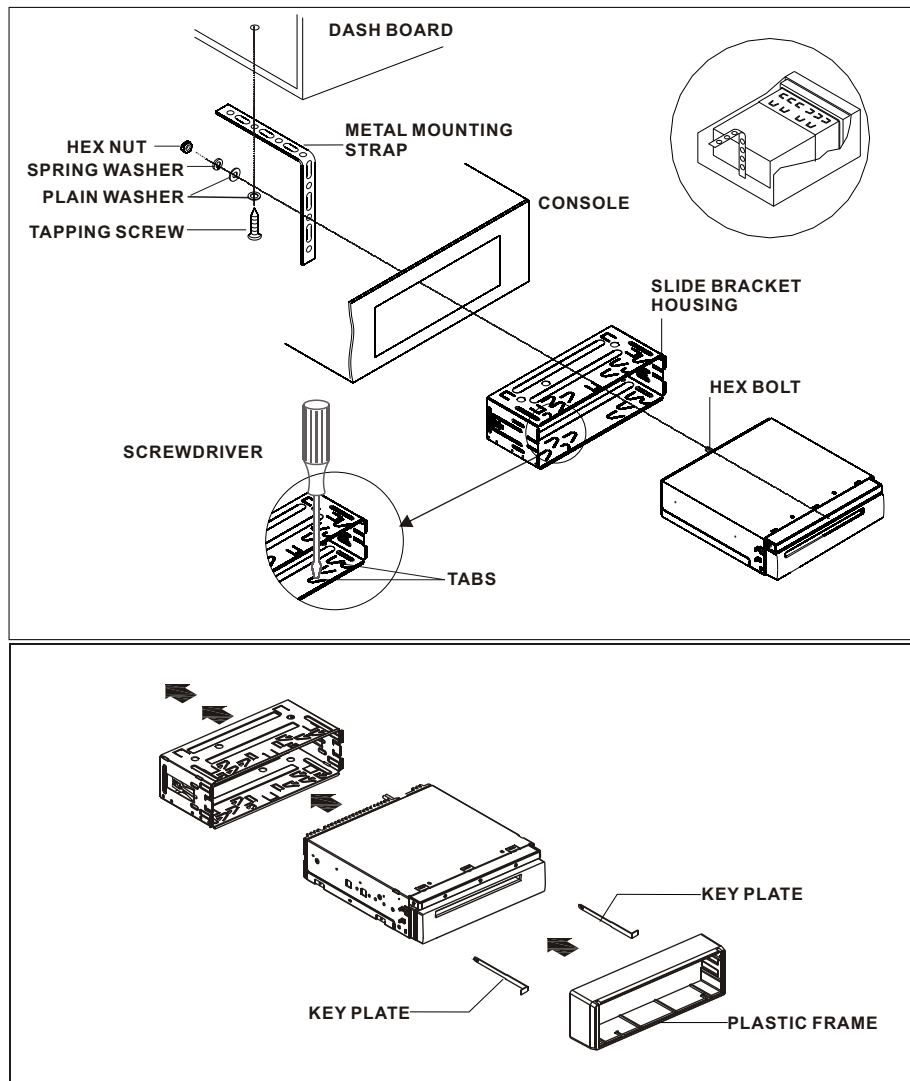
3) Remove the control panel from the chassis;

4) Remove the plastic frame from the chassis;

5) Insert 2 key plates into the left and right sides of the chassis and draw the chassis out of the sliding bracket housing.

# Installation

## Installation Diagram



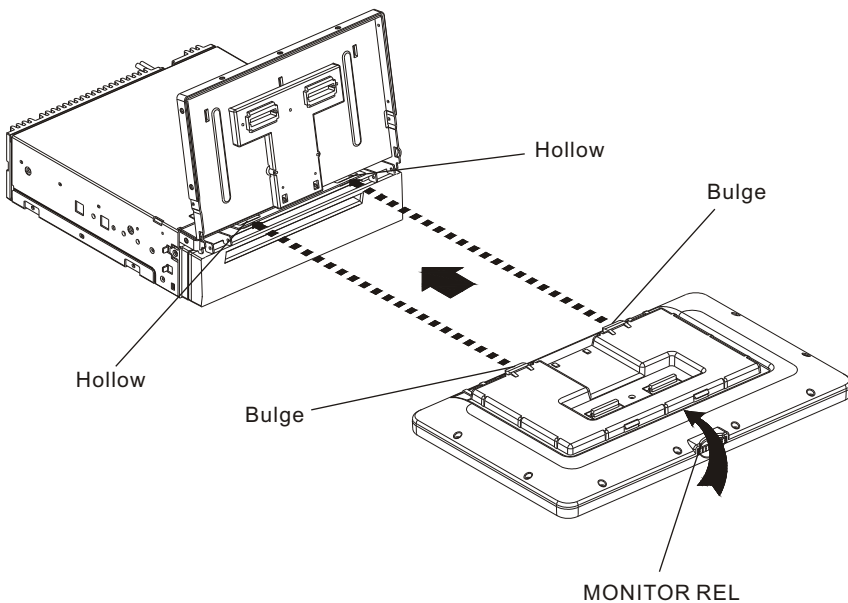
If you want to take CHASSIS out of the SLIDE BRACKET HOUSING, first remove the PLASTIC TRIM OUT of the both sides away, then insert the two KEY PLATE into left and right side of chassis as above illustration.

# Installation

---

Installing the monitor.

- 1) Press the OPEN/MONITOR-ANGLE button to slide the monitor holder out and stand it up.
- 2) Insert the 2 bulges of the monitor into the 2 hollows of the monitor holder and flip up the monitor, then push the top middle part of the monitor to make the monitor attach onto the monitor holder.

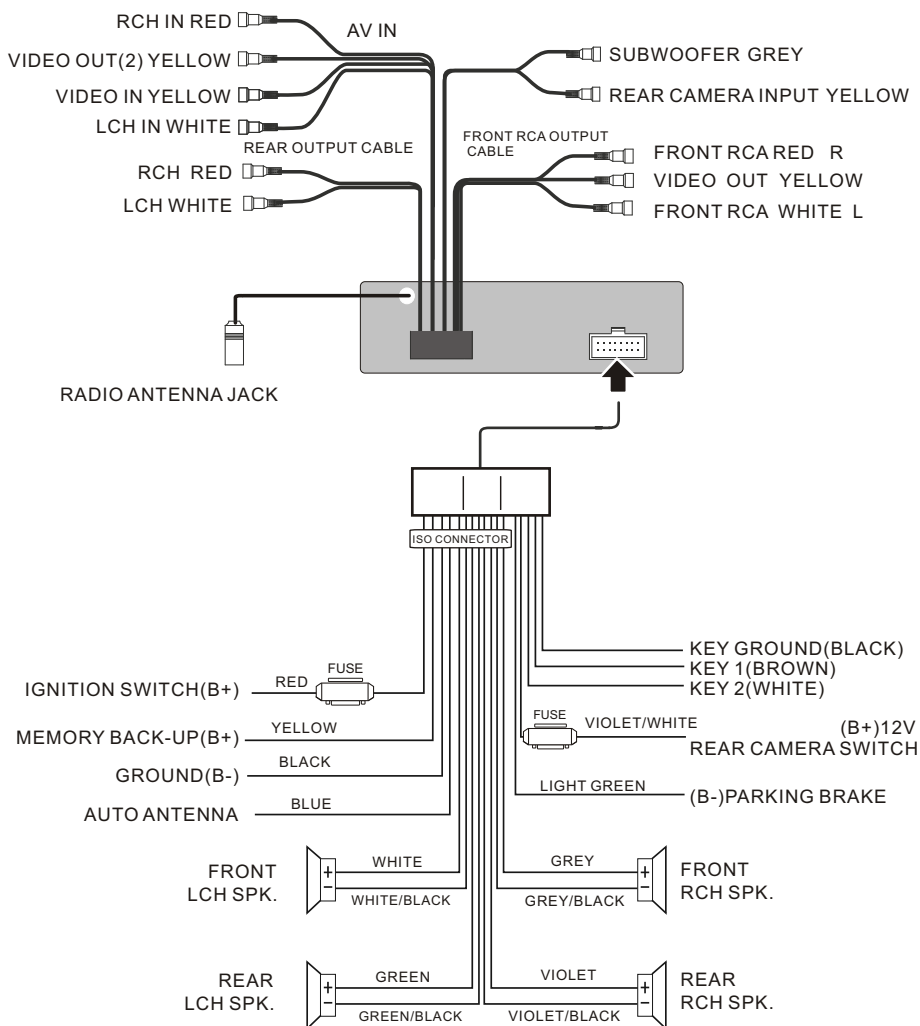


Removing the monitor.

- 1) Push the MONITOR REL to detach the monitor from the monitor holder;
- 2) Hold the top part of the monitor to pull away from the monitor holder and lift it up to remove it.

# Electric Connection

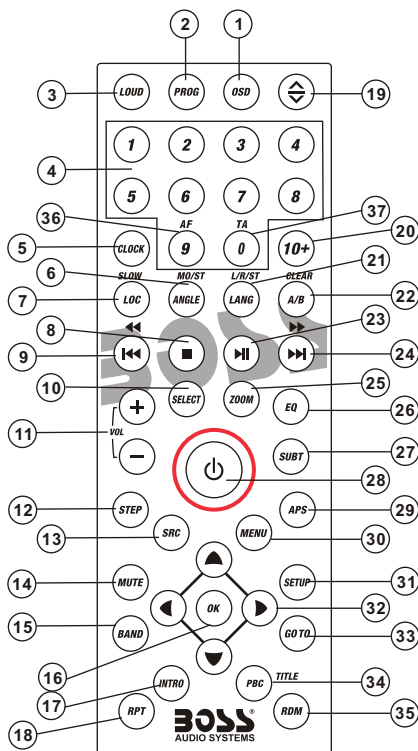
## WIRING CONNECTION



### Note:

the ground connection cable (parking brake B-) must be connected in order for pictures to be played back to the monitor. If the cable has not been correctly connected, warning message appears on the monitor.

# Remote Control



18. RPT BUTTON

19. ANG BUTTON

20. 10+ BUTTON

21. LANG/L/R/ST BUTTON

22. A-B/CLEAR BUTTON

23. >II BUTTON

24. >>I BUTTON

25. ZOOM BUTTON

26. EQ BUTTON

27. SUBT BUTTON

1. OSD BUTTON

2. PROG BUTTON

3. LOUD BUTTON

4. NUMBER(0~9)BUTTONS

5. CLOCK BUTTON

6. ANGLE/MO/ST BUTTON

7. LOC/SLOW BUTTON

8. STOP BUTTON

9. I<< BUTTON

10. SELECT BUTTON

11. VOLUME+/- BUTTONS

12. STEP BUTTON

13. SRC BUTTON

14. MUTE BUTTON

15. BAND BTTON

16. OK BUTTON

17. INT BUTTON

28. POWER BUTTON

29. APS BUTTON

30. MENU BUTTON

31. SETUP BUTTON

32. ◀/▼/▶/▲ BUTTON

33. GOTO BUTTON

34. PBC/TITLE BUTTON

35. RDM BUTTON

36. AF BUTTON

37. TABUTTON

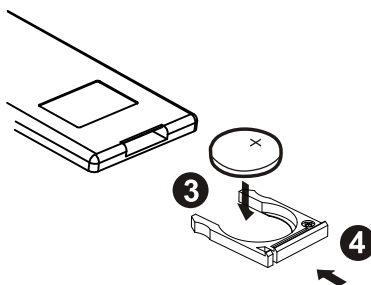
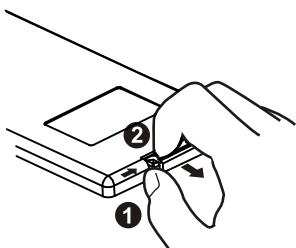
# Remote Control

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## Preparing the Remote Control

### Inserting the Battery

1. First push to inside as the direction indicated by the arrow (See ①) And then Remove the battery holder as the direction indicated by the arrow (See ②).
2. Replace the battery Set a new battery property with (+)side up as illustrated (See ③).
3. Insert the battery holder. Push in the holder to the original position(See ④).



### Using the Remote Control

Face the remote control towards the player front face IR mark (remote control signal receiver).



Operation angle: About  $\pm 30$  degree in each the direction of the front of the IR mark.

### Note :

The lithium cell in the battery compartment of remote control has been secured for transport with a plastic . Before initial use please remove this plastic so that the remote control is ready for operation .

# Basic Operation

## Main Menu Operation

In many modes, touch the  icon or touch the  range to enter the main menu, the message like following as below.



### 1. POWER icon

In any modes, touch the POWER icon to switch the unit off. The monitor will draw in automatically.

### 2. UP/DOWN icon

Touch this icon to adjust the angle of the monitor upward or downward until your desired angle.





### 3. EJECT icon

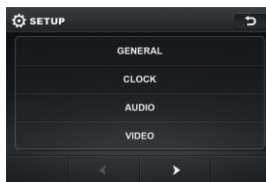
Touch to allow for inserting or ejecting disc.

### 4. When the unit is power on, tap to turn off the display and the unit still work, tap anywhere of the display to turn on the display again.

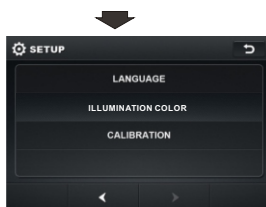
### 5. SETUP icon

Touch to enter the SETTING mode, the message will display as follow :

Touch the "  " section on the setting menu, touch the "  /  " ranges to select the adjustment item, Touch the "  " icon to return to the previous playback.

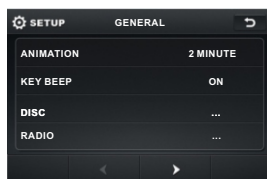


Setup interface 1

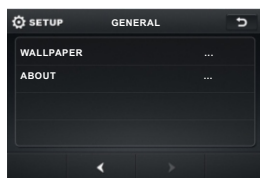


Setup interface 2

## ADJUSTABLE ITEMS:



General setup interface1



General setup interface2

## ANIMATION

In **RADIO** mode, you can change the playing time of animation among of "OFF, 10S, 30S, 1M, 90S, 2M, 3M and 4M".

### Note:

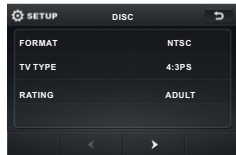
Please set the playing time of the animation to "10S" for the first, when you turn the unit on.

**KEY BEEP** : ON or OFF.



# Basic Operation

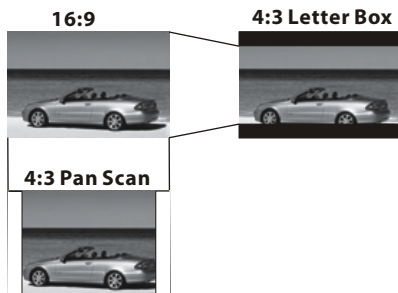
Disc setup as follow:



## FORMAT

This player is capable of playing discs recorded in either PAL or NTSC formats. Make the selection based on whether you are connecting the unit to a PAL TV or an NTSC TV. You can also set the unit to AUTO (auto select). The disadvantage to auto select is that each time you turn the unit on it checks to see what kind of monitor is connected, which causes a small delay and some flickering of the display image which you may find unpleasant.

## TV TYPE



This is to select the appropriate TV aspect (4:3 or 16:9) according to the connected TV set.

## Normal/PS (For 4:3 TV)

Played back in the PAN & SCAN style. (If connected to wide-screen TV, the left and right edges are cut off.)

## Normal/LB (For 4:3 TV)

Played back in LETTER BOX style. (If connected to wide-screen TV, black bands appear at top and bottom of the screen.)

## Wide (For 16:9 TV)

Select when a wide-screen TV set is connected.

## RATING

Select to turn Parental Control on or off.

The factory default password is **0000**.

(The password must be used to make changes to the Parental Control menu below .)

Key in **"0000"** and then turn to rating then you can setting as follow:

**KID SAFE -> G -> PG -> PG-13**

**-> PG R -> R -> NC-17 -> ADULT**

## RADIO

ST/MONO: touch to select stereo or mono.

LOCAL: touch to select local or distant.

REGION: touch to select radio frequency as USA or EUROPE.

## WALLPAPER

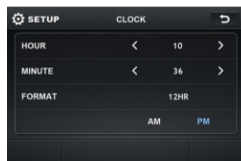
Touch to select wallpaper .

## ABOUT

Touch to show the version information.

## CLOCK SETUP

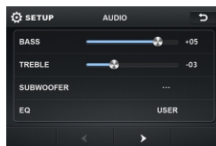
Touch the CLOCK to adjust the time and time format.



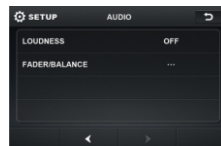
clock setup interface

## AUDIO SETUP

Touch the audio to turn to audio quality adjustment.



audio setup interface1



audio setup interface2

# Basic Operation

**TREBLE: -7 to +7**  
Adjust treble level .

**BASS: -7 to +7**  
Adjust bass level .

**SUBWOOFER:** touch to adjust  
subwoofer volume and frequency.

**EQ:** touch to select audio mode as follow:  
USER -> JAZZ -> CLASSIC -> POP -> ROCK

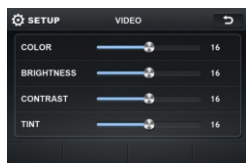
**LOUDNESS:** touch to select loudness  
effect as :OFF -> LOW -> MID -> HIGH

**FADER/BALANCE:**  
**BALANCE:** R 0-10 to L 0-10

Adjust sound balance between left  
and right speakers .

**FADE:** F 0-10 to R 0-10  
Adjust sound balance between front  
and rear speakers .

## VIDEO SETUP



Video setup interface

**COLOR: 0 to 32**  
Adjust the color for the picture-lighter  
or darker.

**BRIGHTNESS: 0 to 32**  
Adjust if the picture is too bright or  
too dark.

**CONTRAST: 0 to 32**  
Adjust the contrast of the bright and  
dark portion.

**TINT: 0 to 32**  
Adjust the tint if the human skin color  
is unnatural.  
-Adjustable when "NTSC " is selected  
for "NTSC/PAL " .

**LANGUAGE**  
Touch to select OSD language.

**ILLUMINATION COLOR**  
Touch to select the backlight for all  
buttons. Tap auto icon the backlight  
change automatically.

**CALIBRATION**  
Touch the arrow as show to calibration  
the display.

## Reset Factory Settings

RESET button is placed on the housing  
and must be activated with either a  
ballpoint pen or thin metal object.



**RESET**

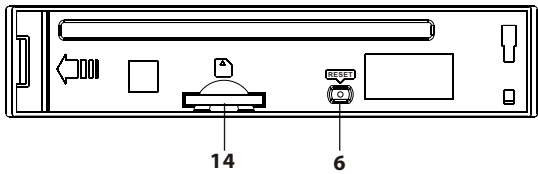
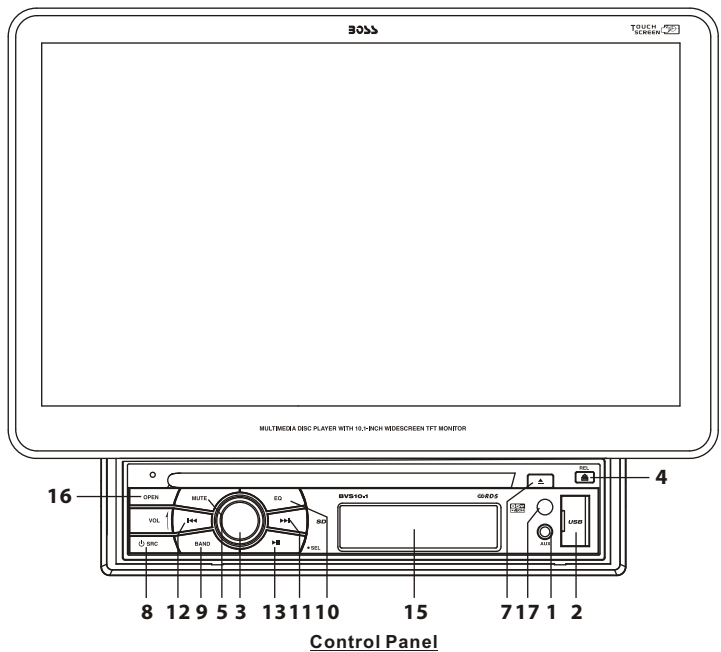
The RESET button is to be activated for  
the following reasons:  
A. Initial installation of the unit when  
all wiring is completed.  
B. All the function buttons do not operate.  
C. Error symbol on the display.

## Rear View Camera

When connecting the rear view camera  
the mirror image of the rear view is auto-  
matically displayed on the monitor  
when you change the gear to the back  
position.  
(Note: additional monitor can not display  
the image.)

# Control Panel

## UNIT KEYS










Sliding Plate diagram after removing Control Panel

- |                            |                      |
|----------------------------|----------------------|
| 1. AUX IN JACK             | 10. EQ BUTTON        |
| 2. USB PORT and COVER      | 11. >>  BUTTON       |
| 3. SEL BUTTON and VOL KNOB | 12.  << BUTTON       |
| 4. REL BUTTON              | 13. >   BUTTON       |
| 5. MUTE BUTTON             | 14. SD/MMC CARD SLOT |
| 6. RESET BUTTON            | 15. LCD SCREEN       |
| 7. EJECT BUTTON            | 16. OPEN BUTTON      |
| 8. POWER/SOURCE BUTTON     | 17. IR SENSOR WINDOW |
| 9. BAND BUTTON             |                      |

# Control Panel

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## Same functions in any work source

1. POWER button and  icon  
In power off mode, pressing POWER button on remote control or pressing POWER button on control panel powers on main unit.  
  
In power on mode, long pressing POWER button on control panel or on remote control or touch  icon on source menu powers off main unit.
2. VOL knob & VOL+/VOL- buttons  
To adjust volume level, rotate VOL knob on control panel or press or hold VOL+ or VOL- button on remote control.
3. SEL button  
In normal mode, the VOL knob is used to increase or decrease the volume.  
  
Press the SEL(except radio mode) to switch between BASS, TREBLE, BALANCE, FADE, COLOR, BRIGHTNESS, CONTRAST, TINT ,REG(in radio mode), PI(in radio mode), TA(in radio mode), AF(in radio mode), LOUD, SWF, EQ, TIME 12H/24H, CLOCK, BEEP, EUR/USA FREQ, ANIMATION.  
  
After switching on the desired mode above, rotate VOL knob or press VOL+/VOL- buttons to set it.
4. MUTE button  
To switch MUTE mode on or off, press MUTE button on remote control or press MUTE button on control panel.
5. To switch between EQ modes  
To select a desired preset EQ mode from USER/JAZZ/CLASSIC/POP/ROCK, press EQ/LOUD button on remote control continuously.
6. To switch LOUD mode  
To switch LOUD mode between LOW, MIDDLE, HIGH and OFF, long press EQ/LOUD button.
7. SW button  
To switch SWF FREQ between 80HZ, 120HZ and 160HZ, long press SW button on remote control.
8. CLK button  
Press CLK button on remote control to display clock time .
9. OPEN or  buttons and  icon  
To slide the monitor holder out and stand it up or into the monitor holder slot(after removing the monitor), press OPEN button on control panel or press  button on remote control;  
  
To adjust the angle of the monitor, long press  button on remote control or touch  icon on source menu .
10. SOURCE button and source menu  
To switch work source between RADIO, DISC(after inserting a disc), USB(after inserting a USB storage), CARD(after inserting a card), AUX IN, AV IN mode, press SOURCE button on remote control or press SOURCE button on control panel continuously.

# Touch Screen Operation

## RADIO OPERATION

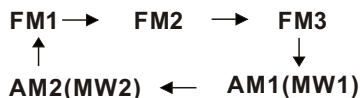
### Listening to Radio

Touch the RADIO ICON in home menu to enter the RADIO mode:



### **Selecting The Frequency Band**

Touch the screen of “**BAND**” section repeatedly to select the band, the message will show in turn :



### **When an FM stereo broadcast is hard to receive**

Press **ST/MO** button on the remote control to select the MONO or STEREO mode .

### **Start Searching For a Station** **Manual Search**

During Radio mode, briefly touch “**>**” to increase frequency by one step of channel spacing.

Briefly touch “**<**” to decrease frequency by one step of channel spacing.

### **Automatic Search**

During Radio mode, touch and hold (for more than 2 seconds ) either “**<**”/“**>**” ICONS to start search for a radio station automatically.

### **To tune in strong-signal FM Station only (LO/DX function)**

In radio mode, Press LOC button on the remote control or tap  icon to select select LOC/DX mode of Local and Long-distance traffic news.

## Storing and Listening to a Memory Station

### **Setting Memory**



With this system, a total of 30 stations can be stored in the memory of six buttons. Each band stores up to six preset stations. The stations might be FM1, FM2, FM3, AM1(MW1), and AM2(MW2) band.

The operation is as below :

#### **- Store in Memory**

- >Select the frequency band
- >Select the station
- >Press and the station until it show the frequency band your select.

#### **- Retrieve a preset station**


Touch the **1-6** ranges briefly to retrieve a station which had been stored in the memory in advance the chose number is shown on display .

# Touch Screen Operation

## Automatic Memory Storing & Program Scanning




### Automatic Preset Setup


In Radio Mode, touch and keep (for more than 2 ' S) the screen of “” range to active automatic station storage.

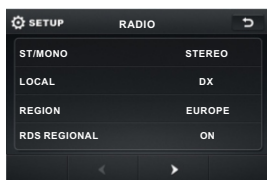
The radio searches within the current frequency band, e.g. FM3, for the stronger signal level until the search cycle has finished . The six strongest stations are then allocated to the corresponding storage locations . Then the station of the first storage location is set .

### Scan Function

In Radio mode, briefly touch the “” section on the touch screen , the radio briefly plays all the preset stations of the frequency band .

## RDS FUNCTION

In home menu, then touch the “” ICON to enter the set mode, the message in the display :



### ADJUSTABLE ITEMS:

#### REGION SET

Touch to switch the REGION function ON and OFF.

## REG FUNCTION

at certain times some stations divide up their programs into regional programs with varying content .

**REG ON** : the message “REG ON” will appears in the display for a few seconds .  
Note :

- the display capacity is limited . It is possible that in the double display mode some segments of the display are deleted .
- the function REG ON prevents the radio from switching to alternative frequency which have a different regional program content .

**REG OFF** : the program identification(PI) of the regional program is ignored during the search for an alternative frequency (AF) or a program identification (PI) .



Select RDS REGIONAL to turn RDS function on or off.

### PI SET

Touch to change between PI MUTE and PI SOUND .

### PI MUTE / PI SOUND

#### (only for radio operation)

If you are in an area where two program identifications (PI) overlap, you can select the option **PI SOUND** and **PI MUTE** for playback of the sound. Alternate switching of the program identification should be avoided .

### PI SOUND :

If switching nevertheless occurs the sound of another station is heard for less than one second .

# Touch Screen Operation

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## **PI MUTE :**

the sound of another station is suppressed .

## **TA Traffic Announcement**

(Priority For Traffic Information)

In Radio mode, touch the cursor button to switch the TA function ON and OFF . When the TA function is activated, the TA symbol appears in the display . During radio operation in one FM frequency band the search for a traffic announcement station is started automatically (TA SEEK) . If an FM station is being received which transmits the latest traffic announcements from time to time, the TP display lights up.

When the TA function is switched on , the FM traffic automatically interrupt CD operation (the word **TRAFFIC** appears in the display).

The volume level is increased to the minimum value for the transmission of traffic announcements.

After the traffic announcements has finished, the program that was previously running is resumed.

## **Interruption of the TA Function:**

If you would like to interrupt the current traffic announcement, touch the TA section on screen briefly . This does switch off the TA mode .

## **AF FUNCTION**

(Alternative Frequencies)

In Radio mode, touch the cursor button to switch the AF function ON and OFF .

AF is a function that works with the help of RDS (Radio Data System) and can only be used with FM stations. The radio searches in the background for the best frequency reception of the station that has been tuned into .

Touch the AF section on touch screen or swing and keep the SEL knob in the TA/AF direction for about 2 seconds , the AF function is activated. The AF symbol appears in the display .

When the AF function has been switched on, the radio continuously tests the signal strength of the AF frequency . The test interval for each AF frequency depends on the signal strength of the current station and varies from a few minutes in the case of weak signals. Whenever the new AF frequency is stronger than the station that is currently tuned in , the radio switched to this frequency for a short time for a short time and the message "NEW FREQUENCY " is displayed for one or two seconds.

## **PTY FUNCTION**

In Radio mode, touch screen of "PTY" range to select the Program type .

### **PTY Selection of the program type**

besides the stations name, some FM stations also transmit information on the type of program. This information can be displayed by your car radio .

Examples of such types of program are :  
**SPORT NEWS POP WEATHER .....**

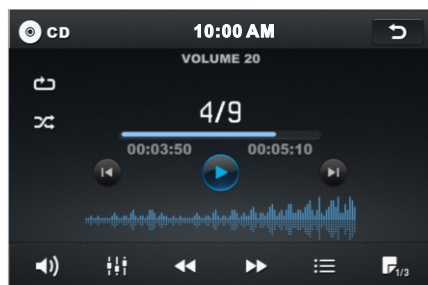
With PTY function you can specifically select stations transmitting a particular type of program. Touch the PTY on screen repeatedly to call up the PTY selection menu. The message "PTY SEEK" then appears briefly in the display . When PTY has been selected the radio start searching for corresponding PTY information and stops when the PTY information has been found, "NO PTY" appears in the display. If the PTY information being searched for no longer exists, the PTY function automatically switches to normal mode .













# Touch Screen Operation






## Media Operation

In audio play mode, the message will display as below :

(When Parking Brake is applied .)










-  Mute function
-  To select the Equalizer mode
-  Fast forward
-  Fast backward
-  Intro Function
-  To decrease the volume level
-  To increase the volume level
-  Loudness Function
-  Subwoofer Function
-  Turning pre-switching for traffic announcements on and off
-  Switching on and off an Alternative frequency
-  Play/Pause the playing

-  To skip the next track
-  To skip the previous track
-  Repeat Function
-  Random Function
-  Previous menu

### The icons for other mode

(The same icon have the same function in each mode)





-  In PHOTO playing ,tap to change the photo direction.
-  ZOOM IN and OUT.
-  For page turning.
-  For page turning.
-  For page turning.
-  For page turning.
-  For page turning.



# Touch Screen Operation




## BASIC OPERATION

### Pause (still picture)

 Touch the “” section on touch screen during playback will stop play temporary, touch it again to return the normal playback .



### Rapid Forward/Rapid Reverse




 During DISC playback, touch the screen of “ / ” range the speed of rapid forward/reverse changes according to the disc as follow:



### Digital Video/VCD/CD/MP3:

Normal Playback 2x → 4x → 8x → 20x

### Skipping Track


 During DISC playback, Touch the  /  section on the touch screen to skip to next/back one track.



### Note :

For some VCD2.0 disc (PBC-playback control), above these buttons may be unavailable .

### Zoom Function

 Touch the button repeatedly, the display show as “**zoom 2, zoom 3, zoom 4, zoom 1/2, zoom 1/3, zoom 1/4, zoom off .**”



Use the direction keys (▲ / ▼ / ◀ / ▶) on remote control to move the enlarged picture .

### Note:

when the JPEG disc playback, in normal mode, you can use the cursor buttons to rotate the picture .


Press UP to invert an image .  
Press DOWN to mirror an image .  
Press LEFT to rotate an image to left .  
Press RIGHT to rotate an image to right .

## SELECTING PLAY MODES

During the Disc playback, select the “RPT, RDM, INT” to select your favour play mode.


### 1). REPEAT FUNCTION

#### FOR Digital Video :

Tap the  icon or press the **RPT** button on the remote control to select REPEAT mode as follows :


CHAPTER REPEAT ON → TITLE REPEAT ON  
← REPEAT OFF ← REPEAT ALL ←

#### FOR VCD/CD :

Tap the  icon or press the **RPT** button on the remote control to select REPEAT mode as follows :

REPEAT ONE → REPEAT ALL  
← REPEAT OFF ←


#### FOR MP3 :

Tap the  icon or press the **RPT** button on the remote control to select REPEAT mode as follows :

REPEAT ONE → REPEAT FOLDER(or DIR)  
← REPEAT OFF ← REPEAT ALL ←

### 2). INTRO FUNCTION

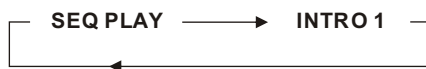
#### FOR CD :

Tap the  icon or press the **INT** button on the remote control to play the previous 10 seconds part of each track/chapter on disc.  
(Touch it again to cancel this mode)

# Touch Screen Operation

## FOR VCD :

Press the **INT** button on the remote control. It display will following menu as below :



Note: when select the **INTRO** Mode, this player to start to play the previous 15 seconds part of each track/chapter on disc. (Touch it again to cancel this mode .)

## FOR Digital Video/MP3 :

For Digital Video/MP3 , press the INT button is not available .

## 3). RDM(RANDOM) FUNCTION

During DISC playback, touch screen of “” section ( press the **RDM** button on the remote control to play in random. Each play mode the order is different . (Depend on the disc used for VCD).

Touch it again to cancel this function .

**Note** : in random mode, the button is not available .

## ON-SCREEN DISPLAY FUNCTION

During playback, touch the screen or press the **OSD** on the remote control, it will display the following as below :

Note: touch the screen or press the OSD on the remote control again to cancel the OSD information.

1. Digital Video , when it is on, it will display the information such as:



2. Example for VCD/SVCD, when it is on, it will display the information such as:



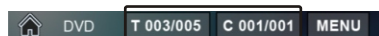
3. Example for Movie or PHOTO . When it is on, it will display the information such as:



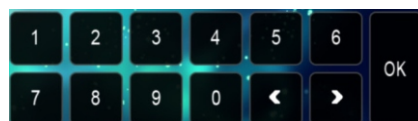
## DISC Search (GOTO)

### FOR Digital Video :

Touch the screen as show or press the GOTO button on remote control;



the screen will display the following message :



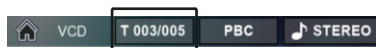
Touch the to select the your adjustment item, then select the item your favour by touching the numeric buttons , then touch the **OK** button to confirm .

# Touch Screen Operation

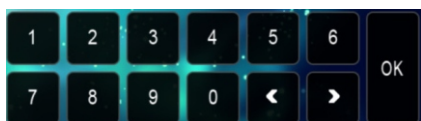
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## FOR VCD (With PBC OFF) :

Touch the screen as show or press the GOTO button on remote control;



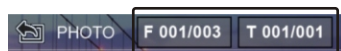
the screen will display the following message :



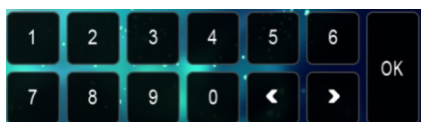
Touch the   to select the your adjustment item, then select the item your favour by touching the numeric buttons , then touch the **OK** button to confirm .



## For Movie/Photo:

Touch the screen as show or press the GOTO button on remote control;



the screen will display the following message :



Touch the   to select the your adjustment item, then select the item your favour by touching the numeric buttons , then touch the **OK** button to confirm .

# Touch Screen Operation

## Digital Video Special Function

### 1. Multi-subtitle Language Function (for Digital Video Only)



During Digital Video playback. Touch the **OFF** icon on touch screen (or press the **SUBT** on the remote) .

Each time the button is pressed or touch, number of the subtitle language changes in sequential order.

#### Notes:

- The language number is different according to the disc.
- Some discs only contain one subtitle language.
- When no different subtitle language are recorded, "**INVALID KEY**" will be displayed at screen left top corner.

### 2. Multi-Audio Language Function



#### For Digital Video:

During Digital Video playback , touch the **1/2** icon on touch screen (or press the **LANG**

on the remote .) Each time the button is pressed or touch , number of the audio soundtrack language changes on sequential order.

#### Notes:

- The language number is different according to the disc.
- Some disc only contain one language soundtrack
- When no different language soundtrack are recorded "**INVALID KEY**" will be display at screen left top corner.

#### For VCD/CD:

during playback, touch the **AUDIO** section of the touch screen or Press **AUDIO** on the remote . It is possible to switch the sound between monaural and stereo sound.



### 3. Multi-Angle Function (for Digital Video Only)

During Digital Video playback, touch the **ANG OFF** icon on the touch screen . Each time the button is pressed , the number of the angel changes in sequential order .

#### Notes:

- The angle number is different according to the disc.
- The function only work for disc having scenes recorded at different angles.
- When no different angle are recorded, "**INVALID KEY**" will be displayed at screen left top corner.

### 4. Title Menu Function

#### For Digital Video:

If the Digital Video has multiple titles recorded on the disc. It can select preferred title from the title menu to start playback.

- During Digital Video playback, press **TITLE** button on the remote .The title menu is display.
- Select preferred title by the cursor button and confirmed by press the **ENTER** button .

#### For VCD:

Press **TITLE/PBC** button on the remote control while the disc is playing, you can switch between "PBC ON"and "PBC off" mode.

# Touch Screen Operation

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## 5. A-B Repeat (for Digital Video and VCD)

Press the **A-B** button if you want to repeat a specific segment on a disc that you define:

1. Press the **A-B** button at a point (A) where you want it to be the start point of the repeat segment. Press the **A-B** button again at a point (B) where you want it to be the terminal point of the repeat segment. Then it will play the segment repeatedly.
2. To cancel the A-B repeat mode and resume normal playback, press the **A-B** button for the third time.

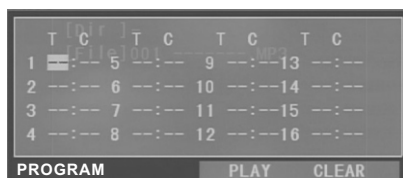
### Note:

During DVD playback, points A and B can be selected from different chapters.

## 6. Program Playback (for Digital Video and VCD)

It allows you to enter the order in which you want some chapters/tracks in DVD/VCD to play.

- 1 During playback, press the PROG button to enter a program interface as follows:



Program interface for DVD

- 2 Use the direction buttons to move cursor onto the desired place for inputting the sequence number.

- 3 Use the number button to input desired sequence number of title/ chapter/track with desired sequence.

- 4 After input your favour, press >|| on remote or use the direction buttons to select play and then press OK on remote to play the programmed titles/ chapters/tracks in programmed order.

\* Tap the display or press stop button to exit the PROG .

\* During VCD playback, if it is in PBC ON mode, at the same time of entering the state of program playback, it turns off PBC mode.

## 7. Display still frame step by step (for Digital Video and VCD)

If the unit is currently playing video, press the STEP button consecutively to display still frame step by step.

Press the PLAY button to resume normal playback.

## 8. Playback with Slow Speed

During video playback , press the LOC/SLOW button to execute the Slow Forward function.

Press the PLAY button to resume normal playback.

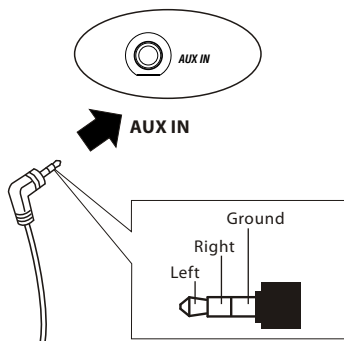
# Touch Screen Operation

## AUX Operation

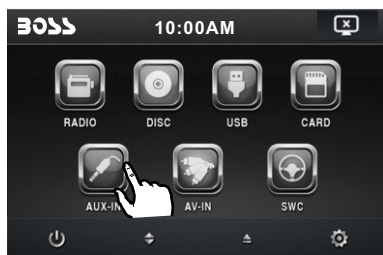
On the front panel of this unit, there is an AUX IN jack, follow the diagram below to connect analogue replay devices(only for the Audio connect, if you want to connect the Video, please plug the <Video input > on the back of the unit .) . Use this jack to replay sound of other replay equipment such as Digital Video players, computers, etc. Via the loud-speakers.

1). Please connect the external device with stereo jack (3.5mm)plug the Aux in socket .

### AUX IN JACK FRONT PANEL



2). In radio mode, touch the screen of " " ICON to enter the main menu, touch the "AUX " ICON to enter the AUX IN mode .



### AUX INTERFACE 1



### AUX INTERFACE 2

3). You now hear the sound from the external device played back through the loudspeakers .

The function of the icons as follow:

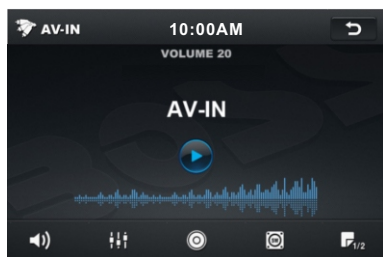
- Tap to mute the sound.
- Tap to select EQ as the same on the remote control.
- Loudness Function
- Subwoofer Function
- Tap to adjust audio volume.
- Turning pre-switching for traffic announcements on and off
- Switching on and off an Alternative frequency

# Touch Screen Operation

## AV Operation

Please plug the <Video input > on the back of the unit .


Touch the AV IN icon to enter the AV IN mode.



**AV INTERFACE 1**



**AV INTERFACE 2**

As the interface show, here is only the audio output, now tap the  icon, the picture of the auxiliary input video show on the display and tap the display again to turn to audio mode.

Now you can watch the video from your External video equipment such as Digital Video players, computers, etc.

The function of the icons as follow:



Tap to mute the sound.



Tap to select EQ as the same on the remote control.



Loudness Function



Subwoofer Function



Tap to adjust audio volume.



Turning pre-switching for traffic announcements on and off



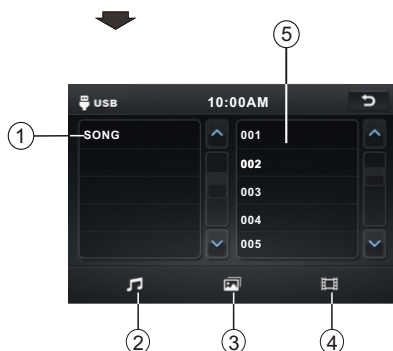
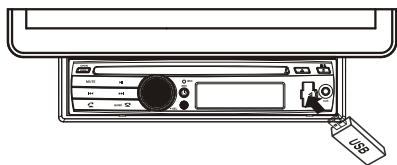
Switching on and off an Alternative frequency

Note: To ensure safety while driving and to comply with laws, drivers should not watch video or operate the video device while driving.

# Touch Screen Operation

## USB OPERATION

Following the diagram below, connect your USB device to the front panel USB port . If it is properly connected, the device will be mounted and start playing automatically.

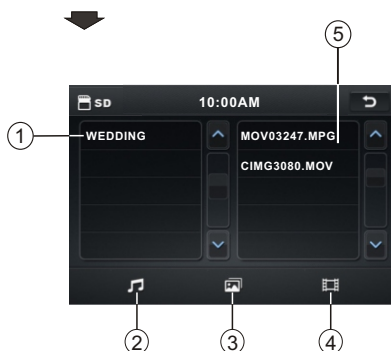
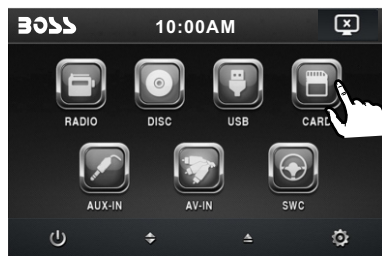
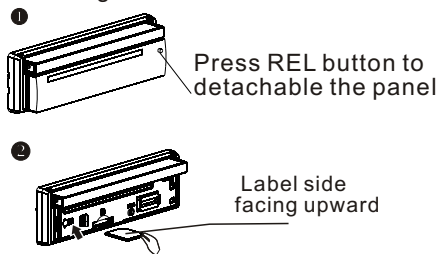


- 1 Current type (highlighted bar) .
- 2 Audio play mode select.
- 3 Picture play mode select.
- 4 Movie play mode select,
- 5 Current play track .

## Card OPERATION

The unit can support playback MP3/WMA/ JPEG/MP4 format which are stored on SD memory cards .

Please read the following instructions before you start using a memory card . Inserting the card as follow:



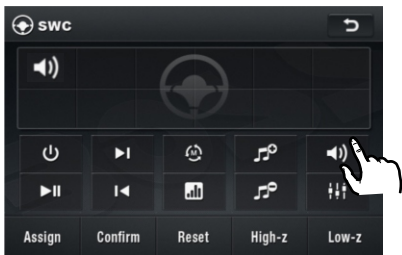
- 1 Current type (highlighted bar) .
- 2 Audio play mode select.
- 3 Picture play mode select.
- 4 Movie play mode select,
- 5 Current play track .






# Touch Screen Operation

## STEERING WHEEL CONTROL

Touch the SWC icon as follow to turn to steering wheel control .



During setting, touch the  icon to turn to home menu.

There are 2 KEY for total 12 buttons to save, first, tap Assign to open function save, then select button 1 in KEY 1 on steering wheel and tap the  icon, the icon show in button 1 position then touch Confirm, final exit the SWC mode , the  function will save in button 1 of KEY 1.

The function of the icons as follow:

**Assign** Touch to begin function save.

**Confirm** After selection touch to confirm operation.

**Reset** Touch this icon to cancel the input and resume load.

**High-z** When electric resistance is too low, touch this icon to increase.

**Low-z** When electric resistance is too high, touch this icon to reduce.

# Parental Control

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## \* Parental Control

- Q: After inserting a Digital Video disc into the disc slot, if a dialogue box pops up and asks you to input a password, what should you do ?
- A: The playing disc is locked by a rating level of parental control. If the current rating level of parental control of the Digital Video player is lower than the one of current disc, you must input the correct password of parental control to unlock the parental control and enter a rating level equal to or higher than one of the current disc in order to play the disc.
- \* For factory preset password of parental control of Digital Video player, please see the part of Media Setup Menu.

## **Appendix: Parental Control**

Parental Control function of a Digital Video player can control playback of movie ratings on a disc. You can set the Digital Video player to be a certain rating level of parental control using the Media Setup Menu. If the rating level of parental control of a disc is higher than the one of the Digital Video player, the Digital Video player cannot play the disc.

The Digital Video movie can be designed so that the Digital Video player can play different versions of content of a particular movie according to the different rating levels of parental control. Depending on the Digital Video features, the scenes that are not suitable for children will be cleared or replaced by suitable scenes automatically.

The rating levels of Parental Control are as follows:

- |   |          |
|---|----------|
|   | Unlock   |
| 1 | Kid Safe |
| 2 | G        |
| 3 | PG       |
| 4 | PG 13    |
| 5 | PGR      |
| 6 | R        |
| 7 | NC 17    |
| 8 | Adult    |

# Region Code

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## \* Region Code

If you insert a disc into the disc slot and REGION ERROR is displayed, the car multi-media system can not play the disc. The reason is that the region codes of the car multi-media system and the used disc do not match each other.

### **Appendix: Region code of Digital Video**

Motion Picture Association of America (MPAA) divided the world into 6 regions, and gave every region a region code for locking and unlocking Digital Video playback.

Basically, a coded Digital Video player can play only the discs if its region code is the same as the code of the Digital Video player. Otherwise, it cannot play the disc.

Please note that only the Digital Video discs and Digital Video players produced by the 8 biggest film-making companies of America impose this restriction. The Digital Video discs and Digital Video players not produced by the 8 biggest film-making companies of America are not restricted by the rule of region code. Generally, they are called Free Region Code or Full Region Code.

The problems caused by area code inconsistency has motivated the production of unlocked version Digital Video players and recodable Digital Video players .

Region codes and the countries or areas represented by region codes are as follows:

Region 1: America, Canada, East-Pacific Inlands;

Region 2: Japan, West Europe, North Europe, Egypt, South Africa, Middle East;

Region 3: South-east Asian countries include Taiwan, Hong Kong, South Korea, Thailand, Indonesia, etc.;

Region 4: Australia, New Zealand, Central South America, South Pacific Inlands;

Region 5: Russia, Mongolia, Indian Peninsula, Middle Asia, East Europe, North Korea, North Africa, North-west Asia etc.;

Region 6: China mainland.

The 8 biggest film-making companies of America are as follows:

1. WarnerBros;
2. Columbia;
3. 20thCenturyFOX;
4. Paramount;
5. Universal;
6. UA(UnitedArtist);
7. MGM(MetroDogwynMayer);
8. WaltDisney

# Specification

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## Specification

### General

Power Supply Requirement.....DC 12V  
Current consumption.....10A MAX.

### Audio

Signal Output.....Front, Rear, and Subwoofer Output  
Frequency Response.....20 Hz - 20 KHz  
S/N Ratio.....90 dB (JIS)  
Wow and Flutter.....Below measurable limits

### TFT Monitor

Monitor Screen Size.....10.1 Inch Wide  
Color System.....NTSC/PAL

### Disc/USB/Card

Compatible Format....Digital Video/MPEG4/VCD/IMAGE/MP3/WMA/CD

### Radio

#### FM

Frequency range.....87.5MHz - 107.9MHz  
Usable sensitivity.....15dBu  
I.F Frequency.....10.7MHz

#### MW

Frequency.....530KHz - 1710KHz  
Usable sensitivity.....40dBu  
I.F Frequency.....450KHz

### NOTE:

Specification and design are subject to modification, without notice,  
due to improvements in technology.

# Troubleshooting

Before going through the check list, check wiring connection. If any of the problems persist after check list has been made, consult your nearest service dealer.

SYMPTOM	CAUSE	SOLUTION
No power	The car ignition switch is not on	If the power supply is properly connected to the car accessory terminal, switch the ignition key to "ACC"
	The fuse is blown	Replace the fuse
Disc can not be loaded or ejected	Presence of disc inside the player.	Remove the disc in the player, then put a new one
	Inserting the disc in reverse direction	Insert the compact disc with the label facing upward
	The disc is extremely dirty or defective	Clean the disc or try to play a new one
	Temperature inside the car is too high	Cool off or until the ambient temperature return to normal
Video/image appears black-white	The color system is set incorrectly	Please switch to correct color system from menu
No video/image appears	The unit is not connected to the parking brake detection switch	Make proper connection according to "wire connection"
	The parking brake is not engaged	For safety reasons no video/ images are displayed while the vehicle is moving. Engaging the parking brake will cause images to be displayed.
No color in picture	The disc format is not according to the TV-set used (PAL/NTSC)	Please choose a proper color system.
JPEG disc can not be played back	No JPEG files are recorded on the disc.	Change the disc
	JPEG files are not recorded in a compliant format	Change the disc Record JPEG files using a compliant application
The operation keys do not work	The built-in microcomputer is not operating properly due to noise	Press the RESET button. Front panel is not properly fixed into its place
The radio does not work	The antenna cable is not connected	Insert the antenna cable firmly
	The signals are too weak	Select a station manually